### Year 6 - Light

#### National curriculum objectives:

To recognise that light appears to travel in straight lines and shadows have the same shape as the objects that cast them.

Objects are seen because they give out or reflect light into the eye

#### Ideas of how to do this whilst on lock down:

- https://www.bbc.co.uk/bitesize/topics/zbssgk7
- Make a poster detailing different types of light sources e.g. Sun, torches etc.
- Create shadow puppets and use to investigate the relationship between light sources, object and the shadows they create.

#### Investigation

- Go outside in the morning, stand in the sun and mark and X on the ground where your feet are. Draw around your shadow in chalk and measure the length. Keep repeating this throughout the day, standing on the same X each time.
- Observe how your shadow size changes in length each time.
- Log the measurements and plot the findings on a graph (choose your preferred way of recording this).
- Interpret the results: what has happened and why?
- Explore the relationship between the length of the shadow, the height of the sun in the sky and the Earth's axis.

# Make your own glow worm





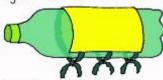
## You will need Empty cleaned out and label · small green plastic bottle · glow stick long, metallic or black pipe cleaner three long green or black pipe cleaners · two yellow beads @ @ • two pieces of card · strong glue GLUE • scissors black paint sheet/old newspapers (to cover your table with)

Do you love a glow stick? We've got a fab wildlife creation for you to try... it even involves a bit of recycling too!

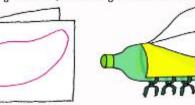
Twist your three green or black pipe cleaners around the middle of the bottle. Bend them to look like legs.



Wrap a piece of card around the bottle, leaving a space around the legs. Glue the card onto the body.



[3] Fold the other piece of card in half. Cut out a wing shape. Unfold, then glue the wings on top of the glow worm's body.



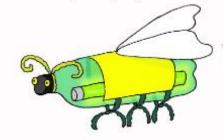
4 Paint the bottle cap black.
Once dry, screw it back onto
the bottle. Glue the two beads
to the side of it as eyes.



Wrap your metallic pipe cleaner around the neck of the bottle, twisting it into place. Curl up the ends to create the antennae.



6 Remove the lid from your bottle. Activate your glow stick (follow the manufacturer's instructions) and place inside the bottle. Secure your lid and ta-da... you've got yourself a glow worm!



These can be used over again – just pop in a new glow stick!

www.wildlifewatch.org.uk

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